

CLAIMS

- 1
- 2
- 3 1. A cable retractor assembly, comprising:
- 4 an enclosure for housing a rotatable reel, the enclosure having a first side and an
- 5 opposing second side,
- 6 a biasing member coupled to the reel and the enclosure for urging the reel to rotate
- 7 in a predetermined direction,
- 8 a first plurality of terminals disposed on the first side of the enclosure, and a
- 9 second plurality of terminals disposed on the second side of the enclosure, the first
- 10 plurality of terminals electrically coupled to the second plurality of terminals.
- 11
- 12 2. The cable retractor of claim 1, wherein the first plurality of terminals is
- 13 coupleable to a battery charger and the second plurality of terminals is coupleable to an
- 14 electronic device.
- 15
- 16 3. The cable retractor of claim 2, wherein the electronic device is a wireless phone.
- 17
- 18 4. The cable retractor of claim 3, wherein the wireless phone is a cellular phone.
- 19
- 20 5. The cable retractor of claim 1, further comprising a length of cable having a first
- 21 end and a second end, the first end of the cable coupled to the rotatable reel and the
- 22 second end of the cable comprising a speaker.

2

4

6

8

10

12

14

16

18

20

22

11. A portable communications device, comprising:

- a cable retractor for retracting a coupled cable onto a rotatable reel,
- a sensor for sensing rotation of the reel,
- a circuit for determining the presence of an incoming call,

1 a controller programmed to pick up the incoming call when the sensor senses
2 motion.

3
4 12. The cable retractor of claim 11, wherein the sensor is a Hall effect sensor.

5
6 13. The cable retractor of claim 11, wherein the sensor is an optical sensor.

7
8 14. The cable retractor of claim 11, further comprising a speaker coupled to cable a
9 first spaced distance from the sensor.

10
11 15. The cable retractor of claim 14, further comprising a microphone coupled to the
12 cable a second spaced distance from the sensor.

13
14 16. A method for picking up an incoming call on a communications device,
15 comprising the steps of;

16 receiving a signal of an incoming call,

17 monitoring a motion sensor, and

18 picking up the incoming call when the sensor senses motion.

19

20 17. The method of claim 16, wherein the communications device is a wireless phone.

21

22 18. The method of claim 17, wherein the communications device is a cellular phone.

- 1
2 19. The method of claim 16, wherein the picking up of the incoming call couples the
3 incoming call to a speaker.
4
5 20. The method of claim 16, wherein the motion sensor senses motion of a cable.
6
7 21. The method of claim 16, wherein the motion sensor senses motion of a rotatable
8 reel.
9
10 22. A cable retractor assembly coupleable to a communications device, comprising:
11 an enclosure for housing a rotatable reel,
12 a biasing member coupled to the reel and the enclosure for urging the reel to rotate
13 in a predetermined direction, and
14 an actuator coupled to the enclosure to signal the communications device to pick
15 up an incoming call.
16
17 23. The cable retractor assembly of claim 22, wherein the communications device is a
18 wireless phone.
19
20 24. The cable retractor assembly of claim 22, wherein the communications device is a
21 cellular phone.
22

1 25. The cable retractor assembly of claim 22, further comprising a terminal for
2 coupling the signal to the coupleable communications device.

3
4 26. The cable retractor assembly of claim 22, further comprising a speaker coupled to
5 a cable for generating sound waves, the cable coupled to the reel.

6
7 27. A portable communications device, comprising:
8 a communications circuit for sending and receiving wireless communications
9 signals,
10 a cable retractor assembly for retracting a coupled cable, the cable comprising a
11 first end and a second end, the first end coupled to the communications circuit and the
12 second end comprising a speaker, and
13 an enclosure for housing the communications circuit and the retractor.

14
15 28. The portable communications device of claim 27, further comprising a
16 microphone coupled to the cable a spaced distance from the speaker.

17
18 29. The portable communications device of claim 28, further comprising an enclosure
19 for housing the speaker and a microphone.

20
21 30. A cable retraction assembly, comprising:
22 a reel rotatable about an axis for the winding and unwinding of a cable, the cable

1 having at least two electrical conductors,
2 a biasing member coupled to the reel for urging the reel to rotate in a first
3 direction; and
4 a force applicator for resisting winding and unwinding of the cable.

5
6 31. The cable retraction assembly of claim 30, further comprising a speaker coupled
7 to the cable for generating sound waves.

8
9 32. The cable retraction assembly of claim 31, further comprising a microphone
10 coupled to the cable for detecting sound waves.

11
12 33. The cable retraction assembly of claim 30, wherein the enclosure is detachably
13 coupleable to an electronic device.

14
15 34. The cable retraction assembly of claim 33, wherein the electronic device is a
16 portable communications device.

17
18 35. A portable electronic device, comprising:
19 an electrical circuit capable of generating signals,
20 a cable having a first end and a second end, the first end coupled to the electrical
21 circuit,
22 a speaker disposed at the second end of the cable for converting the signals into

1 sound waves,

2 a cable retractor comprising a reel rotatable about an axis for the winding and

3 unwinding of the cable, the cable having at least two electrical conductor,

4 a biasing member coupled to the reel for urging the reel to rotate in a first

5 direction, and

6 a moveable force applicator for resisting winding and unwinding of the cable.

8 36. The portable electronic device of claim 35, further comprising a transceiver for

9 transmitting and receiving data.

10

11 37. The portable electronic device of claim 36, wherein the transceiver operates at

12 radio frequencies.

13

14 38. The portable electronic device of claim 35, further comprising a microphone

15 couple to the cable for detecting sound waves.

16

17 39. The portable electronic device of claim 35, further comprising an enclosure for

18 housing the electrical circuit, the reel, the biasing member, the force applicator, and a

19 portion of the cable.

20

21 40. The portable electronic device of claim 35, wherein the portable electronic device

22 is a selected one of a AM/FM radio, a CD player, an MP3 player, a cassette player, a

1 personal digital assistant, a computer, a cordless phone, a radio phone, and a cellular
2 phone.

3

4 41. A cable retractor, comprising;

5 an enclosure mechanically coupleable to a portable electronic device,

6 a rotatable reel,

7 a biasing member secured to the enclosure and the reel to urge the reel to rotate in

8 a predetermined direction,

9 a length of cable having a first end and a second end, the first end coupled to the

10 reel and the second end having a speaker coupled thereto,

11 a plurality of terminals secured to the enclosure, the terminals electrically coupled

12 to the first end of the cable and electrically coupleable to the portable electronic device.

13

14 42. The cable retractor of claim 41, further comprising a microphone couple to the

15 cable for detecting sound waves.

16

17 43. The cable retractor of claim 41, wherein the portable electronic device is a

18 selected one of a AM/FM radio, a CD player, an MP3 player, a cassette player, a personal

19 digital assistant, a computer, a cordless phone, a radio phone, and a cellular phone.

20